



Gold Seal Lesson

Author(s): Marsha Kucker			Lesson Title: Learning About Plants			
Grade Span			ICLE Application Model			
K-4 x	5-8	9-12	A	B x	C	D

Instructional Focus:

Basic Concepts and Knowledge – Students develop an understanding of scientific concepts using facts, theories, principles, and models.

Listening – Students listen for a variety of purposes appropriate to the grade level.

Speaking – Students speak for a variety of purposes and audiences with sophistication and complexity appropriate to the grade level.

Performance Task

- Ask students to list types of plants they are familiar with. Discuss with them the "parts" of a plant and the functions and purposes for each.
 - Root - hold plants up, take in water
 - Stem - hold plants toward sun
 - Branches - hold leaves outward to get more sunlight, keep plant stable
 - Leaves - receive sun's energy and light to make food for the plant
 - Flowers - attract bees to get pollen and make seeds to make new plants
 - Fruit - part of the flower that protects seeds and gives them food until they grow
- Ask students to draw and color a picture of a plant. The plant can be a flower or a vegetable of their own choosing.
- Ask them to label the plant structures on their drawings.
- Have them present their drawings to the class.

This activity meets specific competencies and indicators as outlined in the National Career Development Guidelines.

ICLE Essential Skills

Know the structure and functions of roots, stems, leaves flowers and other parts of plants. (s 11)
Know the characteristics, roles, and divisions of complex organisms (i.e., plants and animals) (s 30)
Plan and apply real or hypothetical models and constructions to facilitate investigation and learning and the solution to practical problems. (s 115)
Follow oral or written directions. (ela 4)
Use brainstorming, role playing, and standard problem solving strategies to define a problem and suggest solutions. (ela 19)
Participate, sometimes leading, in group meetings by contributing, taking turns speaking, and working toward a common goal. (ela 20)
Gather information such as data, facts, ideas, concepts and generalizations from oral sources. (ela 51)

Scoring Guide:

See attachment: Learning About Plants Chart

Keywords

English Language Arts	Mathematics	Science
Reading	Algebra	Earth Science
Writing	Geometry	Life Science Plants
Communications Discussion Listening Illustration	Statistics	Chemistry
Literature	Calculus	Physics
Other	Trigonometry	Other
	Other	

Chart

3	BEYOND	<p>Analyzed and readily understood the task.</p> <p>Developed an efficient and workable strategy.</p> <p>Showed explicit evidence of carrying out the strategy.</p> <p>Synthesized and generalized the conclusion.</p>
2	AT LEVEL	<p>Understood the task.</p> <p>Developed a workable strategy.</p> <p>Inferred (some evidence) but not always clear.</p> <p>Connected and applied the answer.</p>
1	NOT YET AT	<p>Partially understood the task.</p> <p>Appropriate strategy some of the time.</p> <p>Possible evidence of a plan – not clear.</p> <p>Partial connection of answer.</p>
0		<p>Totally misunderstood.</p> <p>Inappropriate, unworkable strategy.</p> <p>No evidence of carrying out a plan.</p> <p>No connections of answer.</p> <p>Blank.</p>